

DDB has every enclosure NEMA rated to make it easier for our customers to know which enclosure will perfectly protect your electrical equipment against their specific environmental conditions. **NEMA testing** evaluates the performance of an enclosure under specific environmental conditions and verifies that it meets the specified NEMA ratings.

WHAT is a NEMA rating?

NEMA stands for National Electrical Manufacturers Association.

NEMA ratings classify the level of protection an electrical enclosure has against specific environmental elements. NEMA ratings are mainly used in North America for rating enclosures. Overall, the NEMA rating system ensures that electrical equipment is protected against specific environmental conditions and that it's safe for applications.

WHAT are some of the NEMA ratings?

NEMA 3

- Indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts
- To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust)
- To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow)
- And that will be undamaged by the external formation of ice on the enclosure

NEMA 3R

- Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts
- To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt)
- To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow)
- And that will be undamaged by the external formation of ice on the enclosure

NEMA 3RX

- Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts.
- To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt)
- To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that will be undamaged by the external formation of ice on the enclosure

- NEMA 3RX enclosures are designed with the same corrosion resistance as NEMA 4X, but since they are not required to be dust tight, louvers and other ventilation options can be added.

NEMA 4

- Indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts
- To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust)
- To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water)
- And that will be undamaged by the external formation of ice on the enclosure

NEMA 4X

- Indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts
- To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (windblown dust)
- To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water)
- That provides an additional level of protection against corrosion
- And that will be undamaged by the external formation of ice on the enclosure